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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,042	12/30/2003	Wang Yueh	42P18259	9165
8791	7590 07/10/2006		EXAMINER	
BLAKELY	SOKOLOFF TAYLOR &	WALKE, AMANDA C		
12400 WILS SEVENTH F	HIRE BOULEVARD	ART UNIT	PAPER NUMBER	
0 - 1 - 1 1 1 1 1	ES, CA 90025-1030		1752	
			DATE MAILED: 07/10/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application No.	Applicant(s)				
Office Action Summary			10/750,042	YUEH ET AL.				
			Examiner	Art Unit				
			Amanda C. Walke	1752				
Period fo	The MAILING DATE of this communion Reply	ication appe	ars on the cover sheet w	vith the correspondence	e address			
WHIC - External after - If NC - Failu Any	ORTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE M Insions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm of period for reply is specified above, the maximum sta- re to reply within the set or extended period for reply reply received by the Office later than three months a and patent term adjustment. See 37 CFR 1.704(b).	AILING DAT of 37 CFR 1.136 unication. ututory period will will, by statute, ca	TE OF THIS COMMUN (a). In no event, however, may a apply and will expire SIX (6) MO ause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of the BANDONED (35 U.S.C. § 133)	his communication.			
Status								
1)⊠	Responsive to communication(s) file	d on <i>12 .lan</i>	uary 2006					
•=	This action is FINAL . 2b) This action is non-final.							
′=	Since this application is in condition	•—		tters, prosecution as to	the merits is			
-,_	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	Claim(s) <u>1-3,5-14,16-20 and 23-32</u> is	s/are pendin	g in the application.					
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
	☐ Claim(s) 10 is/are allowed.							
	Claim(s) <u>1-3, 5-9, 11-14, 16-20, and 23-32</u> is/are rejected.							
	Claim(s) is/are objected to.							
8)[Claim(s) are subject to restric	tion and/or	election requirement.					
A pplicati	on Papers			·				
9)	The specification is objected to by the	e Examiner.						
,	The drawing(s) filed on is/are:			by the Examiner.				
,	Applicant may not request that any object	•	<u>, </u>	•	n).			
	Replacement drawing sheet(s) including	the correctio	n is required if the drawing	g(s) is objected to. See 3	7 CFR 1.121(d).			
11)	The oath or declaration is objected to	by the Exa	miner. Note the attache	d Office Action or form	PTO-152.			
Priority ι	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim of All b) Some * c) None of:		·	§ 119(a)-(d) or (f).				
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority			• • • • • • • • • • • • • • • • • • • •	and Otama			
	3. Copies of the certified copies of	•		n received in this Natio	nai Stage			
* <u>c</u>	application from the Internation see the attached detailed Office action		• • • •	t received				
	see the attached detailed emoc action	irioi a list oi	The serimed copies no	received.	•			
Attachmen	t(s)							
1) 🔯 Notic	e of References Cited (PTO-892)			Summary (PTO-413)				
_	e of Draftsperson's Patent Drawing Review (P	•		(s)/Mail Date Informal Patent Application	(PTO-152)			
	nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date	r 10/38/08)	6) Other:					

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1/12/2006 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 5, 7-9, 11-14, and 16-32 are rejected under 35 U.S.C. 102(b) as being anticipated by Iwasa et al (6,437,052).

Iwasa et al disclose a monomer having a diol structure meeting the instant claim limiations for use in a negative resist composition and patterning process. The alicycli diols comprise –OH groups on adjacent carbons (see columns 3 and 4). Sutiable cycloolefin include adamantyl and norbornene structures. The resist further comprises a crosslinking agent, a PAG, and a solvent (see column 11). The resin coated onto a substrate, prebaked, exposed to light of a short wavelength such as 220 nm or shorter via an ArF laser, and developed (column 18). Suitable developers include 2.38 % TMAH. Given the teachings of the reference, the instant claims are anticipated.

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Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 2, 3, and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Iwasa et al.

Iwasa et al has been discussed above, and further teaches that while not preferred, it is known in the art to include novolak monomers, or styrene based monomers in such compositions (column 1).

Given the teachings of the reference, it would have been obvious to one of ordinary skill in the art to prepare the material of Iwasa et al choosing to include an aromatic monomer in combination with the cyclic diol with reasonable expectation of achieving a material having high etch resistance.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Iwasa et al (2002/0016431), Harada et al (EP 1126322), Hanlon et al (4,767,550), Holdstock et al (2002/0042549), Becker et al (5,336,815), Lee et al (6,359,153), Narita et al (2004/0192867), Toishi et al (2003/0175620), and Rhodes et al (2003/0176583) are cited for their teachings of similar compounds.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amanda C. Walke whose telephone number is 571-272-1337. The examiner can normally be reached on M-R 5:30-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Amanda C Walke

Examiner
Art Unit 1752

ACW March 30, 2006